

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2005/003694

A. CLASSIFICATION OF SUBJECT MATTER

Int.C1⁷ C12N15/09, 1/21, C12P13/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.C1⁷ C12N15/09, 1/21, C12P13/04

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho 1922-1996 Jitsuyo Shinan Toroku Koho 1996-2005
Kokai Jitsuyo Shinan Koho 1971-2005 Toroku Jitsuyo Shinan Koho 1994-2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

JSTPLUS (JOIS), BIOSIS/WPI (DIALOG), SwissProt/PIR/GeneSeq,
GenBank/EMBL/DDBJ/GeneSeq, MEDLINE (STN)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	"Corynebacterium glutamicum ndh gene." Database Ganbank Accession No.AJ238250, 03 December, 2000 (03.12.00), [retrieved on 25 April, 2005 (25.04.05)]	1-20, 22, 25, 26
Y	JP 2002-17361 A (Ajinomoto Co., Inc.), 22 January, 2002 (22.01.02), & US 2002/0160461 A1 & EP 001170376 A1 & AU 005416901 A1 & CN 001335401 A & BR 000102666 A & PL 000348448 A	1-20, 22, 25, 26
Y	Bott M. et al., "The respiratory chain of Corynebacterium glutamicum.", J. Biolotechnol., 04 September, 2003 (04.09.03), Vol.104, pages 129 to 153	1-20, 22, 25, 26

☒ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:

- A- document defining the general state of the art which is not considered to be of particular relevance
- E- earlier application or patent but published on or after the international filing date
- L- document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- O- document referring to an oral disclosure, use, exhibition or other means
- P- document published prior to the international filing date but later than the priority date claimed

-T- later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

-X- document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

-Y- document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

-&- document member of the same patent family

Date of the actual completion of the international search
28 April, 2005 (28.04.05)

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Japanese Patent Office

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INTERNATIONAL SEARCH REPORT

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PCT/JP2005/003694

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, X	Nantapong N. et al., "Effect of NADH dehydrogenase-disruption and over-expression on respiration-related metabolism in <i>Corynebacterium glutamicum</i> KY9714", <i>Appl Microbiol Biotechnol</i> , 2004.12, Vol.66, page 187 to 193	1-26
A	Molenaar D. et al., "Functions of the membrane-associated and cytoplasmic malate dehydrogenases in the citric acid cycle of <i>Corynebacterium glutamicum</i> .", <i>J. Bacteriol.</i> , 2000.12, Vol.182, pages 6884-91.	1-26
A	Bjorklof K., "Purification of the 45 kDa, membrane bound NADH dehydrogenase of <i>Escherichia coli</i> (NDH-2) and analysis of its interaction with ubiquinone analogues.", <i>FEBS Lett.</i> , Vol.467, No.1, 04 February, 2000 (04.02.00), pages 105 to 110	1-26